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DERWENT-WEEK: 200020

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TITLE: Substrate transfer control device for substrate  
conveying system in semiconductor device factory

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PRIORITY-DATA: 1998JP-0221939 (August 5, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
JP 2000053238 A	February 22, 2000	N/A
B65G 047/61		009

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2000053238A	N/A	1998JP-0221939
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INT-CL (IPC): B65G047/61, H01L021/68

ABSTRACTED-PUB-NO: JP2000053238A

BASIC-ABSTRACT:

NOVELTY - A safety cover (17) cuts off the transfer of a semiconductor substrate (9) between a semiconductor manufacturing apparatus (13) and a floor-based conveying truck (7). A controller (21) regulates the transfer cut-off operation based on the output of a detector (23) which detects the respective positions of the conveying truck and a ceiling-based conveyor (3).

DETAILED DESCRIPTION - A detector (23) determines the respective positions of a floor-based conveying truck (7) and a ceiling-based conveyor (3) which individually convey semiconductor substrates (9) to corresponding semiconductor manufacturing apparatuses (13). INDEPENDENT CLAIMS are also included for the following:

- (a) a substrate conveying system;
- (b) a substrate transfer control procedure;

(c) a machine-readable recording medium in which a substrate transfer control program is recorded.

USE - For substrate conveying system in semiconductor device factory.

ADVANTAGE - Attains high safety even when floor-based conveying truck and ceiling-based conveyor are simultaneously used, thus productivity of production line can be improved. Attains manufacturing cost reduction.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic diagram of a substrate conveying system.

Ceiling-based conveyor 3

Floor-based conveying truck 7

Semiconductor substrate 9

Semiconductor manufacturing apparatus 13

Safety cover 17

Controller 21

Detector 23

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: SUBSTRATE TRANSFER CONTROL DEVICE SUBSTRATE CONVEY SYSTEM  
SEMICONDUCTOR DEVICE FACTORY

DERWENT-CLASS: Q35 U11

EPI-CODES: U11-F02A1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2000-175774